



1645

PTO/SB/21 (05-03)

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Application Number	10/008,244
Filing Date	November 7, 2001
First Named Inventor	Huang, Alan
Art Unit	1645
Examiner Name	To Be Assigned
Attorney Docket Number	018781-005510US

Total Number of Pages in This Submission

6

ENCLOSURES (Check all that apply)

- ☐ Fee Transmittal Form
 - ☐ Fee Attached
- ☐ Amendment/Reply
 - ☐ After Final
 - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/Incomplete Application
 - ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53

- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
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- ☐ Terminal Disclaimer
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 - ☐ Appeal Communication to Board of Appeals and Interferences
 - ☐ Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
 - ☐ Proprietary Information
 - ☐ Status Letter
 - ☒ Other Enclosure(s) (please identify below):
- Return Postcard; References (43).

Remarks

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Firm or Individual

Townsend and Townsend and Crew LLP
Joseph R. Snyder

Reg. No. 39,381

Signature

Joseph R. Snyder

Date

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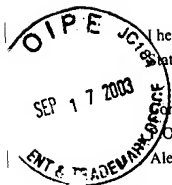
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TOWNSEND and TOWNSEND and CREW LLP

By: [Signature]

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Alan Huang et al.

Application No.: 10/008,244

Filed: November 7, 2001

For: STAT MODULATORS

Examiner: To Be Assigned

Art Unit: 1645

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98

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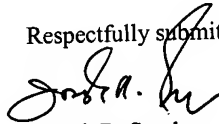
Sir:

The references cited on the attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

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Respectfully submitted,



Joseph R. Snyder
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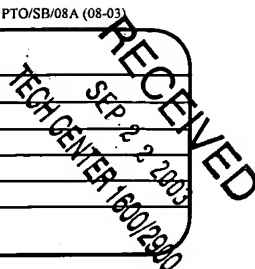
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 3

Complete if Known	
Application Number	10/008,244
Filing Date	November 7, 2001
First Named Inventor	Huang, Alan
Art Unit	1645
Examiner Name	To Be Assigned
Attorney Docket Number	018781-005510US



U.S. PATENT DOCUMENTS+

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	1.	5,591,825		01-07-1997	McKnight et al.	
	2.	5,639,858		06-1997	Hoey et al.	
	3.	5,710,266		01-1998	McKnight et al.	
	4.	5,718,622 A		02-10-1998	Damell, Jr. et al.	
	5.	5,731,155 A		03-24-1998	Schreiber et al.	
	6.	5,591,825		01-1997	McKnight et al.	
	7.	6,426,331 B1		07-30-2003	McKinney et al.	

FOREIGN PATENT DOCUMENTS

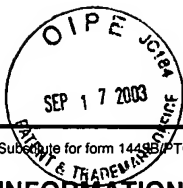
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	8.	JP	10175964		06-30-1998	Sumitomo Seiyaku KK		
	9.	JP	10175965		06-30-1998	Sumitomo Seiyaku KK		
	10.	JP	11106340		04-20-1999	Sumitomo Seiyaku KK		
	11.	JP	11116481		04-27-1999	Sumitomo Seiyaku KK		
	12.	JP	2000 229959	A1	08-22-2000	SumitomoChem Co Ltd		
	13.	WO	97/05162	A1	02-13-1997	BASF Aktiengesellschaft		
	14.	WO	98/31704	A1	07-23-1998	Novartis Pharm.		
	15.	WO	99/24442	A1	05-20-1999	Ariad Pharm. Inc.		
	16.	WO	99/50283	A1	10-07-1999	Tularik Inc.		
	17.	WO	00/027802	A1	05-18-2000	Ariad Pharm. Inc.		
	18.	WO	01/83517	A1	11-08-2001	Tularik Inc.		

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 2 of 3

Complete if Known

Application Number	10/008,244
Filing Date	November 7, 2001
First Named Inventor	Huang, Alan
Art Unit	1645
Examiner Name	To Be Assigned
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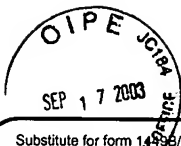
NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	19.	ANONYMOUS, "STAT antibodies" Research Diagnostics, pp.1-9, March 26, 1998	
	20.	ANONYMOUS, "Stat sampler kit" The 1998 Online Antibody Catalog, Transduction Laboratories, 5 pages, March 29, 1998.	
	21.	ANONYMOUS, "The jak-STAT mechanism of signal transduction" The Cytokine Bulletin pp. 1-6 (1995) at <http://www.mdsystems.com/asp/b> (visited on January 8, 2003)	
	22.	BLOMMERS et al., "Transferred cross-correlated relaxation complements transferred NOE: Structure of an IL-4R-derived peptide bound to STAT-6" J. Am. Chem. Soc. 121(9):1949-1953 (1999)	
	23.	CARPENTER, "Receptor tyrosine kinase substrates: src homology domains and signal transduction" FASEB J. 6:3283-3289 (1992)	
	24.	DARNELL et al., "Jak-Stat pathways and transcriptional activation in response to IFNs and other extracellular signaling proteins" Science 264:1415 (1994)	
	25.	HOU et al., "An interleukin-4-induced transcription factor: IL-4 stat" Science 265:1701-1706 (1994)	
	26.	IHLE et al., "Signaling by the cytokine receptor superfamily: JAKs and STATs" Trends Biochem Sci. 19:222-227 (1994)	
	27.	IHLE et al., "Jaks and Stats in signaling by the cytokine receptor superfamily" Trends Genetics 11:69-74 (1995)	
	28.	KAPLAN et al., "Impaired IL-12 responses and enhanced development of Th2 cells in stat4-deficient mice" Nature 382:174-177 (1996)	
	29.	KAPLAN, M. et al., "Stat6 is required for mediating responses to IL-4 and for the development of TH2 cells" Immunity 4:313-319 (1996)	
	30.	MARTIN, et al., "Sulfonic acid enkephalin: Binding specificity to rat brain opiate receptors" Neuropeptides 6:293-302 (1985)	
	31.	MYERS et al., "The IRS-1 signaling system" Trends in Biochem. Sci. 19:289-293 (1994)	
	32.	OSHIMA et al., "A novel interleukin-13 antagonist that blocks the biological activity of human interleukin-13 in immune and nonimmune cells" FASEB Journal 15(6):122-144 (2001)	
	33.	PAWSON, T. "Protein modules and signaling networks" Nature 373:573-580 (1995)	
	34.	QUELLE et al., "Cloning of murine Stat6 and Human Stat6, Stat proteins that are tyrosine phosphorylated in responses to IL-4 and IL-3 but are not required for mitogenesis" Mol. Cell. Biol. 15:336-3343 (1995)	
	35.	RYAN, J. et al., "Growth and gene expression are predominantly controlled by distinct regions of the human IL-4 receptor" Immunity 4:123-132 (1996)	

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**INFORMATION DISCLOSURE
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Sheet 3 of 3

Complete if Known

Application Number	10/008,244
Filing Date	November 7, 2001
First Named Inventor	Huang, Alan
Art Unit	1645
Examiner Name	To Be Assigned
Attorney Docket Number	018781-005510US

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TECH CENTER 1601/2300**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	36.	SCHINDLER, C. et al., "Transcriptional responses to polypeptide ligands: The JAK-STAT pathway" Annu. Rev. Biochem. 64:621-51 (1995)	
	37.	SCHLESSINGER, J. "SH2/SH3 signaling proteins" Curr. Opin. in Gen. and Dev. 4:25-30 (1994)	
	38.	SHUAI et al., "Polypeptide signaling to the nucleus through tyrosine phosphorylation of Jak and Stat proteins" Nature 366:580-583 (1993)	
	39.	THIERFELDER et al., "Requirement for stat4 in interleukin-12 mediated responses of natural killer and T cells" Nature 382:171-174 (1996)	
	40.	WANG, H. et al., "IL-4 function can be transferred to the IL-2 receptor by tyrosine containing sequences found in the IL-4 receptor alpha chain" Immunity 4:113-121 (1996)	
	41.	YAMAMOTO et al., "cDNA cloning, expression and chromosome mapping of the human STAT4 gene: both STAT4 and STAT1 genes are mapped to 2q32.2-q32.3" Cytogenet Cell Genet. 77:207-210 (1997)	
	42.	YAO et al., "Direct interaction of STAT4 with the IL-12 receptor" Archives of Biochemistry and Biophysics 368(1):147-155 (1999)	
	43.	ZHONG et al., "Stat3 and Stat4: Members of the family of signal transducers and activators of transcription" Proc. Natl. Acad. Sci. USA 91:4806-4810 (1994)	

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